



13 Rec'd PCT/PTO 04 DEC 2001

09/913954

SEQUENCE LISTING

<110> Jacobs, Howard
Rovio, Anja

<120> Diagnostic and Screening Method

<130> 227-142 / 2980578US

<140> 09/913,954
<141> 2001-08-21

<150> PCT/FI00/00140
<151> 2000-02-22

<150> FI 990380
<151> 1999-02-22

<160> 5

<170> PatentIn version 3.1

<210> 1
<211> 4440
<212> DNA
<213> Human

<400> 1

gcggaccggc	cgggtggagg	ccacacgcta	ccccgaggct	gcgtaggccg	cgcaagggg	60
gacgccgtgc	cgtgggcctg	gggtcggggg	agcagcagac	cggaagcac	cgtgaggacc	120
gaggatttgg	ggtggaaggc	aggcatggtc	aaaccattt	cactgacagg	agagcagaga	180
caggacgtgt	ctctctccac	gtcttccagc	cagtaaaaga	agccaagctg	gagcccaaag	240
ccaggtgttc	tgactcccag	cgtgggggtc	cctgcaccaa	ccatgagccg	cctgctctgg	300
aggaaggtgg	cgggcgccac	cgtcggggca	gggccgggtc	cagctccggg	gcgctgggtc	360
tccagctccg	tccccgcgtc	cgaccccagc	gacgggcagc	ggcggcgcca	gcagcagcag	420
cagcagcagc	agcagcagca	acagcagcct	cagcagccgc	aagtgcctatc	ctcggagggc	480
gggcagctgc	ggcacaaccc	attggacatc	cagatgctct	cgagagggct	gcacgagcaa	540
atcttcgggc	aaggagggga	gatgcctggc	gaggccgcgg	tgccgcgcag	cgtcgagcac	600
ctgcagaagc	acgggctctg	ggggcagcca	gccgtgccct	tgcccagcgt	ggagctgcgc	660
ctgccgcccc	tctacgggga	caacctggac	cagcacttcc	gcctcctggc	ccagaagcag	720
agcctgccct	acctggaggc	ggccaacttg	ctgttgaggc	cccagctgcc	cccgaagccc	780
cgggcttggg	cctgggcgga	gggctggacc	cggtacggcc	ccgaggggga	ggccgtaccc	840
gtggccatcc	ccgaggagcg	ggccctgggt	ttcgacgtgg	aggtctgctt	ggcagagggg	900
acttgcccca	cattggcggt	ggccatatcc	ccctcggcct	ggtattcctg	gtgcagccag	960
cggctgggtg	aagagcggtt	ctcttggacc	agccagctgt	cgccgggtga	cctcatcccc	1020

ctggagggtcc	ctactggtgc	cagcagcccc	acccagagag	actggcagga	gcagttagtg	1080
gtggggcaca	atgtttcctt	tgaccgagct	catatcaggg	agcagtacct	gatccagggt	1140
tcccgcattg	gtttcctgga	caccatgagc	atgcacatgg	ccatctcagg	gctaagcagc	1200
ttccagcgca	gtctgtggat	agcagccaag	cagggccaaac	acaagggtcca	gccccccaca	1260
aagcaaggcc	agaagtccca	gaggaaagcc	agaagaggcc	cagcgatctc	atcctggggac	1320
tggctggaca	tcagcagtgt	caacagtctg	gcagagggtgc	acagacttta	tgtagggggg	1380
cctcccttag	agaaggagcc	tcgagaactg	tttgtgaagg	gcaccatgaa	ggacattcgt	1440
gagaacttcc	aggacctgat	gcagtactgt	gcccaggagc	tgtggggccac	ccatgagggt	1500
ttccagcagc	agctaccgct	cttcttggag	aggtgtcccc	acccagtgc	tctggccggc	1560
atgctggaga	tgggtgtctc	ctacctgect	gtcaaccaga	actgggagcg	ttacctggca	1620
gaggcacagg	gcacttatga	ggagctccag	cgggagatga	agaagtcgtt	gatggatctg	1680
gccaatgatg	cctgccagct	gctctcagga	gagagggtaca	aagaagaccc	ctggctctgg	1740
gacctggagt	gggacctgca	agaatttaag	cagaagaaag	ctaagaagg	gaagaaggaa	1800
ccagccacag	ccagcaagtt	gcccctcgag	ggggctgggg	cccctggtga	tcccatggat	1860
caggaagacc	tcggccccctg	cagtgaggag	gaggagtctc	aacaagatgt	catggccccg	1920
gcctgcttgc	agaagctgaa	ggggaccaca	gagctcctgc	ccaagcggcc	ccagcacctt	1980
cctggacacc	ctggatggta	ccggaagctc	tgcccccgcc	tagacgaccc	tgcattggac	2040
ccggggccca	gcctcctcag	cctgcagatg	cgggtcacac	ctaaactcat	ggcacttacc	2100
tgggatggct	tccctctgca	ctactcagag	cgtcatggct	ggggctactt	ggtgcctggg	2160
cggcgggaca	acctggccaa	gctgccgaca	ggtaccaccc	tggagtcagc	tgggggtggc	2220
tgccccctaca	gagccatcga	gtccctgtac	aggaagcact	gtctcgaaca	ggggaagcag	2280
cagctgatgc	cccaggaggc	cggcctggcg	gaggagtctc	tgctcactga	caatagtgcc	2340
atatggcaaa	cggtagaaga	actggattac	ttagaagtgg	aggctgaggc	caagatggag	2400
aacttgcgag	ctgcagtgcc	aggtcaaccc	ctagctctga	ctgcccgtgg	tggcccccaag	2460
gacaccacag	ccagctatca	ccatggcaat	ggaccttaca	acgacgtgga	catccctggc	2520
tgctggtttt	tcaagctgcc	tcacaaggat	ggtaatagct	gtaatgtggg	aagccccctt	2580
gccaaaggact	tcctgcccaa	gatggaggat	ggcacccctgc	aggctggccc	aggaggtgcc	2640
agtgggcccc	gtgctctgga	aatcaacaaa	atgatttctt	tctggaggaa	cgcccataaa	2700
cgtatcagct	cccagatggg	ggtgtggctg	cccaggtcag	ctctgccccg	tgctgtgatc	2760
aggcaccgcc	actatgatga	ggaaggcctc	tatggggcca	tcctgccccca	agtgggtgact	2820
gccggcacca	tcactcgccg	ggctgtggag	cccacatggc	tcaccgccag	caatgccccg	2880

ccagctccgt ccccgcggtcc gacc

24

<210> 3
<211> 25
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 3
gctgcccgcg ctcgaggat agcac

25

<210> 4
<211> 27
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 4
ctctcgagag catctggatg tccaatc

27

<210> 5
<211> 24
<212> DNA
<213> Artificial Sequence

<220>
<223> primer

<400> 5
ctcgtgcagc cctctcgaga gcat

24